

CCTTTCATAGAGAACAAAGAACTAAAGAAATTCGTGACAAATGGACAATATAATTGGCCCAGTGTTCCTCCT  
 CATGGTAATCTCATGCCTCTACAATCTACATCCAGTACACTCTCAGGTCAACATCAGAGTAAGGATATGGAGCCTA  
 GGATCCCTTCTTAAACAACCTGGAGACGTAATAACCCCTCTTTATTAATGCATAGAATTAAGATTTCCATAGGGATAT  
 TTAACAGAAAACACATTTACTCTATTACCCCTAGAATAGGTACTTTTAAATAGAAGGTGATGTGGGATCTGAGGT  
 AGGCGGGACAAGAATGGAGACACATCTGAAAAATAGTTATTGTTGAAAATTTTTAGGTACTGACAAGATGGAAGTC  
 AACATTTCAATGCCTCTGAATGGATCAGAAGTTGTGTTTTATGATTCTACCACCTCAAGTGTTCATGGATCCTCT  
 CATTAGTGGTTCTCTTTATAACCTTTGTCTCGGTGTTCTAGGTAATGGGCTTGTGATTTGGGTGGCTGGGTTC  
 GATGGCACACACTGTGACCACTGTCTCTTATCTGAACCTGGCTTTGAGTGATTTATCTTTTCATGGTTACTCTACCA  
 CTTACATCATCTCAATGGTCATGAGAGGAAAATGGCTTTTTGGTTGGTTTCTTTGCAAATTAGTTCACATAATTG  
 CAAACATAAACCTTTTTGTAAGTATCTTCCTAATCACTCTTATTGCCATGGATCGCTGTATTTGTGTCTGTGCCC  
 AGTATGGTCTCAGAATCACCGAAGTGTGAGTCTGGCCAGAAAAGTGGTTCTTGGAGCTTGGATATTTGCTCTGCTG  
 CTTACCTTGCCACATTTTCTCTTCTTGACTACAGTGAGAGATGCAAGAGGGGATGTGTACTGTATATCTAAATTTG  
 AATCCTGGGTGCAACCTCTGAAGAGCAGTTAAAGATGTCTGTTATTGCTGCCACAGCTTCAGGAATCATCAATTT  
 CATTATTGGATTACAGCATGCCCATGTCTTTTCATTGCTATCTGCTATGGACTCATGGCTGCCAAGATCTGCAGAAGA  
 GGCTTTGTGAATTCCAGTCGTCTTTACGTGTCTCACTGCTGTAGCGATTTCTTTCTTTGTCTGTTGGTTCCCTTT  
 TTCAATTAATTATGCTTTTAGGCAACATCTTTAACAATGAGACACTGAGCATTATTTCATATGTTGGTTAACCCAGC  
 AAATACCTTGGCTTCCTTTAACAGCTGCCTCAACCCAATACTCTATGTATTCTGGGTGAGGAATTCAGAGACAGA  
 CTAATCTATTCTCTGTATGCCAGTCTAGAGAGGGCCCTGAGGGAAGACTAGTCTTGATGGAAAATTCAGTCTCTGA  
 GCACTGACACAGACAGCAACTTGTCTTCATGAAGTGCAGACTCTGAGCTATAGGAAATGGCAGGAGTAAGGCCAAT  
 GGGATTTTTTTTTTCCCTACCCTAGTCTTAATTTCTGTCTTATCCTATCTTGCATGAAATTTCTGAGTATAACTATA  
 GAATCTCTCTGATTCTGATTTGGAAGACAGAAGT (SEQ ID NO:1)

MEVNISMPLNGSEVVFYDSTTSSVLWILSLVLFITFVLGVLGNGLVIWVAGFQMAHTVTTVSYLNLALESLSFMV  
 TLPLHIIISMVMRGKWLFGWFLCKLVHIIANINLFVSIFLITLIAMDRCICVLCPVWSQNHRTVSLARKVVLGAWIF  
 ALLLTLPHFLFLTTRDARGDVYCISKFESWATSEEQLKMSVIAATASGIINFIIGFSMPMSFIAICYGLMAAKI  
 CRRGFVNSSRPLRVLTAVAIISFFVCWFPFQLIMLLGNIFNNETLSIIHMLVNPANTLASFNCLNPILYVFLGQEF  
 RDRLIYSLYASLERALRED (SEQ ID NO:2)

FIGURE 1

underlined = deleted in targeting construct

**bold** = sequence flanking Neo insert in targeting construct

CCTTTCCATAGAGAACAAAGAACTAAAGAAATTCTGTGACAAATGGACAATATAAATTGGC  
 CCAGTGTTCTCCTCCTCATGGTAATCTCATGCCTCTACAATCTACATCCAGTACACTCTC  
 AGGTCAACATCAGAGTAAGGATATGGAGCCTAGGATCCCTTCTTAAACAACCTGGAGACGT  
 AATAACCCCTCTTTATTAATGCATAGAATTAAGATTTCCATAGGGATATTTAACAGAAAAC  
 CACATTTACTCTATTACCCCTAGAAATAGGTACTTTTAAATAGAAGGTGATGTGGGATCTG  
 AGGTAGGCGGGACAAGAATGGAGACACATCTGAAAAATAGTTATTGTTGAAAAATTTTAG  
 GTACTGACAAGATGGAAGTCAACATTTCAATGCCTCTGAATGGATCAGAAGTTGTGTTTT  
ATGATTCTACCACCTCAAGTGTCTATGGATCCTCTCATTAGTGGTTCTCTTTATAACCT  
TTGTCCTCGGTGTTCTAGGTAATGGGCTTGTGATTTGGGTGGCTGGGTTCCAGATGGCAC  
ACACTGTGACCACTGTCTCTTATCTGAACTTGGCTTTGAGTGATTTATCTTTTCATGGTTA  
 CTCTACCACCTTCACATCATCTCAATGGTCATGAGAGGAAAATGGCTTTTTGGTTGGTTTC  
 TTTGCAAATTAGTTTCACATAATTGCAAACATAAACCTTTTTGTAAGTATCTTCCTAATCA  
 CTCTTATTGCCATGGATCGCTGTATTTGTGTCTGTGCCCAGTATGGTCTCAGAATCACC  
 GAACTGTGAGTCTGGCCAGAAAAGTGGTTCTTGGAGCTTGGATATTTGCTCTGCTGCTTA  
 CCTTGCCACATTTTCTCTTCTTGACTACAGTGAGAGATGCAAGAGGGGATGTGTACTGTA  
 TATCTAAATTTGAATCCTGGGTTGCAACCTCTGAAGAGCAGTTAAAGATGTCTGTTATTG  
 CTGCCACAGCTTCAGGAATCATCAATTTTCATTATTGGATTTCAGCATGCCCATGTCTTTCA  
 TTGCTATCTGCTATGGACTCATGGCTGCCAAGATCTGCAGAAGAGGCTTTGTGAATTCCA  
 GTCGTCCTTTACGTGTCTCACTGCTGTAGCGATTTTCCTTCTTTGTCTGTTGGTTCCCTT  
 TTCAATTAATTATGCTTTTAGGCAACATCTTTAACAATGAGACACTGAGCATTATTCTATA  
 TGTTGGTTAAACCCAGCAAATACCTTGGCTTCTTTAACAGCTGCCCAACCCAATACTCT  
 ATGTATTCTCTGGGTCAGGAATTCAGAGACAGACTAATCTATTCTCTGTATGCCAGTCTAG  
 AGAGGGCCCTGAGGGAAGACTAGTCCTTGATGGAAAATTCAGTCCTGAGCACTGACACAG  
 ACAGCAACTTGTCTTCATGAAGTGCAGACTCTGAGCTATAGGAAATGGCAGGAGTAAGGC  
 CAATGGGATTTTTTTTTTCCCTACCCTAGTCTTAATTTCTGTCTTATCCTATCTTGCATGA  
 AATTTCTGAGTATAACTATAGAATCTCTCTGATTCTGATTTGGAAGACAGAAGT

FIGURE 2A

Gene Sequence  
Structure \*

399 bp

Sequence Deleted

549 bp

Size of CDS: 1554 bp



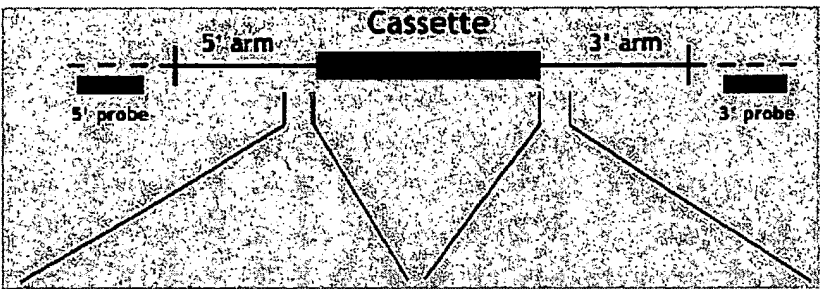
Targeting Vector\*  
(genomic sequence)

Arm Length:  
5': 0.3 kb  
3': 6 kb



\* Not drawn to scale

LacZ-Neo



<p>5'&gt;CATAGAATTAAGATTTCCATA GGGATATTTAACAGAAAACCACAT TTACTCTATTACCCCTAGAATAGG TACTTTTTAAAAATAGAAGGTGATG TGGGATCTGAGGTAAGGCGGGACA AGATGGAGACACATCTGAAAAATA GTTATTGTTGAAAATTTTAGGTG CTGACAAGATGGAAGTCAACATTT CAATGCCTCTG&lt;3' (SEQ ID NO:3)</p>	<p>5'&gt;CCACTGTCTCTTATCTGAACT TGGCTTTGAGTGATTTATCTTTCA TGGCTACTCTACCACTTCACATCA TCTCAATGGTCATGAGAGGAAAAT GGCTTTTTGGTTGGTTTCTTTGCA AATTAGTTCACATAATTGCAAACA TAAACCTTTTTGTAAGTATCTTCC TAATCACTCTTATTGCCATGGATC GCTGTATTTGT&lt;3' (SEQ ID NO:4)</p>
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FIGURE 2B

# Open Field Summary Data - Percent in Central

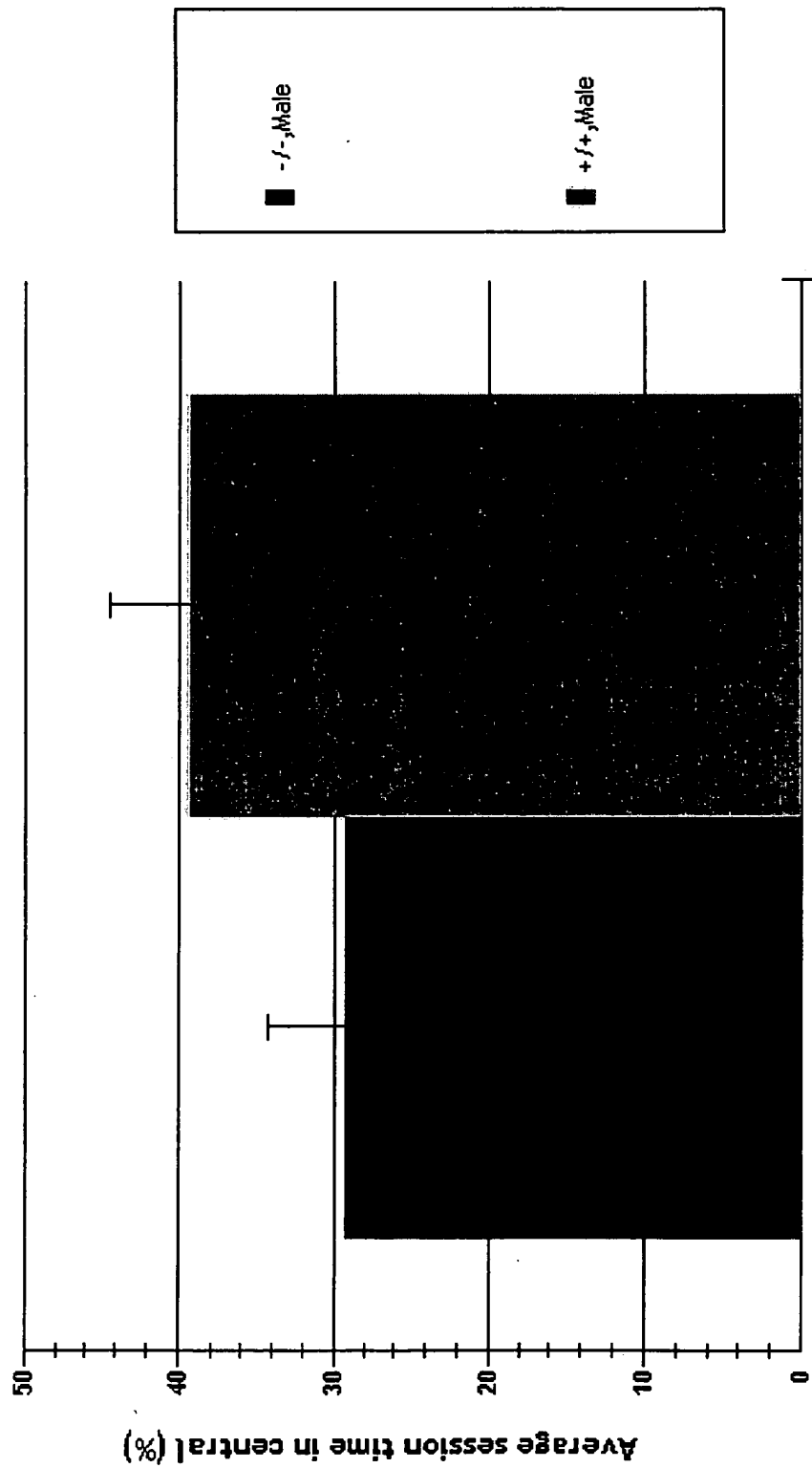


FIGURE 3

# Rotarod

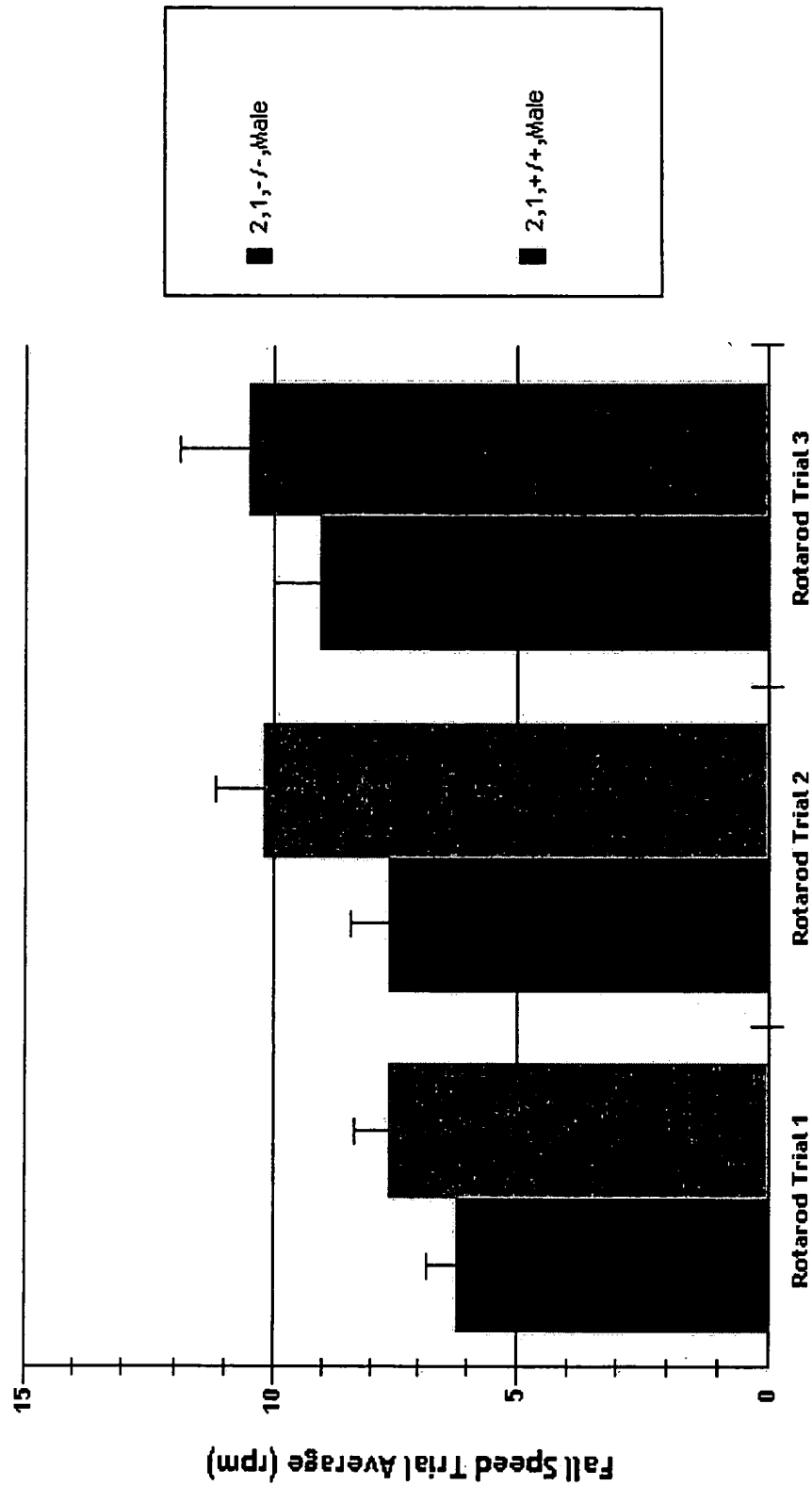


FIGURE 4

# Metrazol

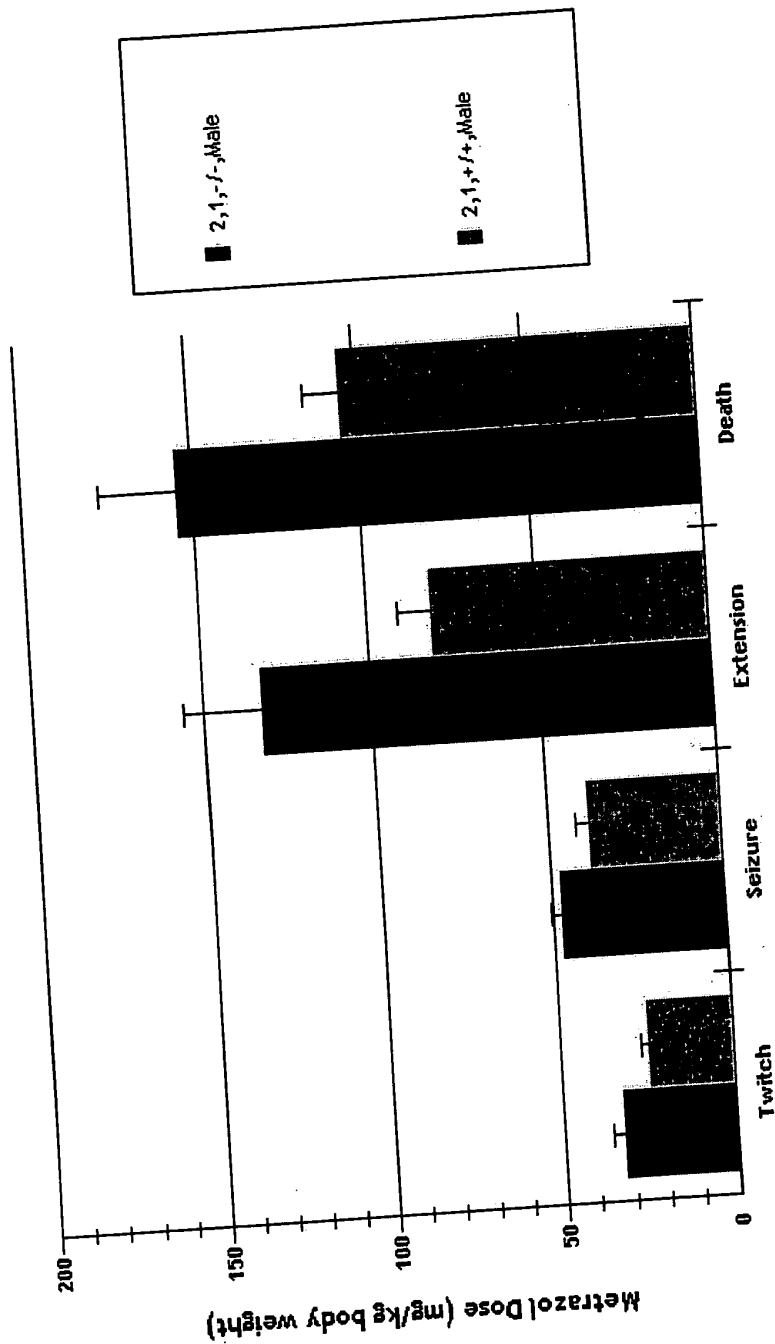


FIGURE 5